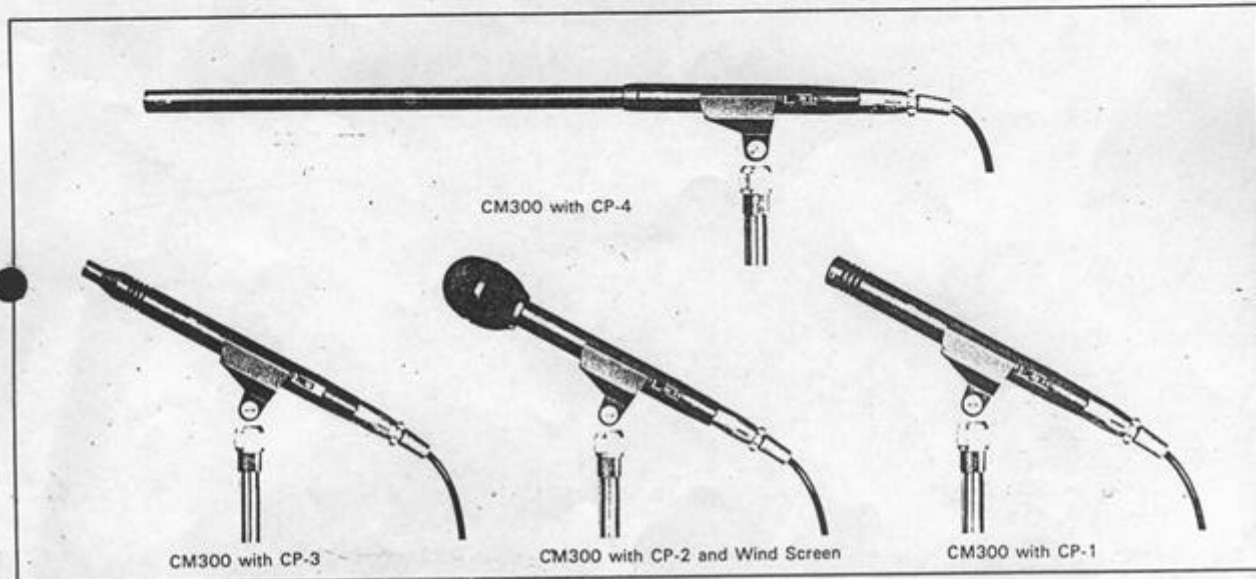


1 mbar = 100 pasc.

# Nakamichi



## Electret Condenser Microphone CM300



### A note on the use of balanced versus unbalanced lines :

Although the CM-300 system microphones each provide a balanced 200 ohm output, the included cables are wired for unbalanced operation. This, of course, makes the microphone system immediately compatible with the three mic inputs on any Nakamichi Cassette Deck. More importantly, however, it points to the fact that balanced lines are to be avoided wherever possible. A balanced line necessitates the use of a transformer at the tape deck input, and even the best of transformers are a source of sound coloration. It should not be necessary to use balanced lines for the lengths of cable provided with the CM-300 system. If longer cables are to be used and potential noise problems exist, the CM-300 microphones can be used with standard two-conductor-plus-shield cables and appropriate connectors to provide fully balanced lines.

CP-1

CP-2

$1 \text{ mb} = 100 \mu\text{Pa}$

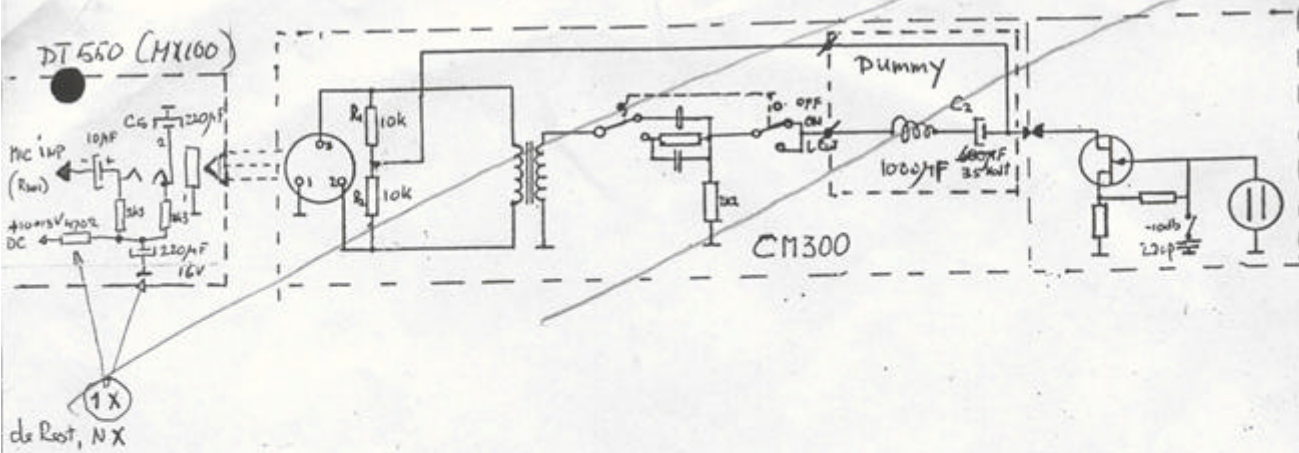
**ELECTRET CONDENSER MICROPHONE**

	CP-1 (Cardioid)	CP-2 (Omni)
Frequency Range	30 - 18,000Hz $\pm 3.5\text{dB}$	20 - 16,000Hz $\pm 3.5\text{dB}$
Output Impedance (1kHz)	200ohms $\pm 20\%$	
Sensitivity (1kHz $0\text{dB} = 1\text{V}/\mu\text{bar}$ )		-76dB $\pm 2.5\text{dB}$ ( $= 1.58 \text{ mV}/\mu\text{Pa}$ )
Attenuation Pad	-10V/ $\mu\text{Pa}$	-10dB
Signal to Noise Ratio (Weighted) (A)	$1 \mu\text{b} = 74 \text{ dB}$ REF = $1 \mu\text{bar}$	Better than 50dB ( $= 24 \text{ dB}$ )
Maximum SPL At 3% Distortion		138dB
Current Consumption	Less than 1mA	
Operating Voltage	7V - 10V DC	
Battery	9.1V Mercury	
Dynamic Range	Better than 114dB	
Low Cut	-10dB/100Hz	

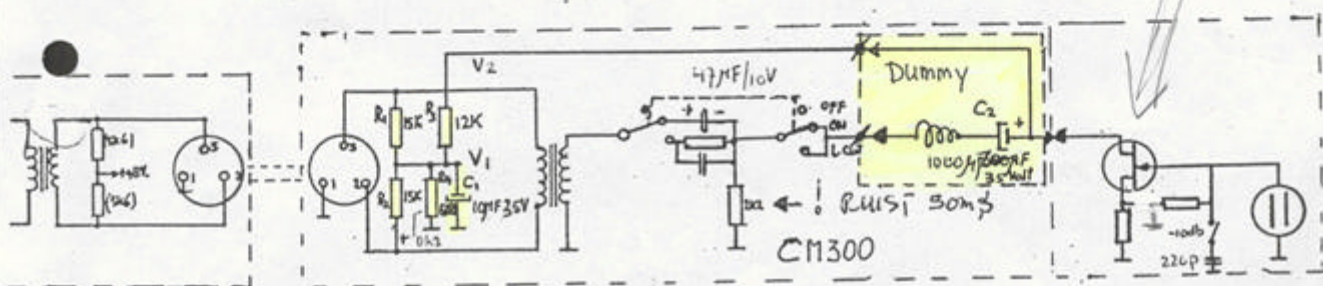
$1 \mu\text{bar} = 0.1 \mu\text{Pa} = 74 \text{ dB}$   
 $1 \mu\text{Pa} = 94 \text{ dB}$



Ombouw CM 300 voor 10V phantoomvoeding.

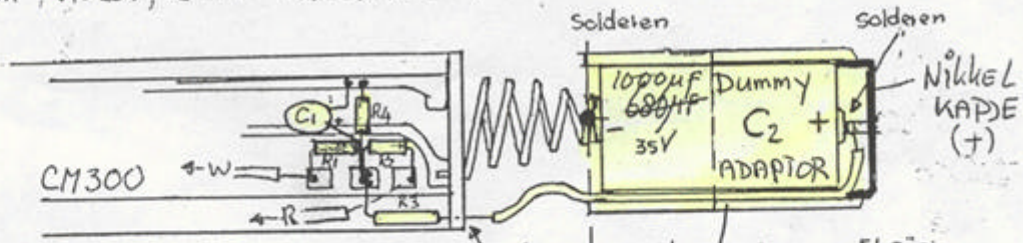


Ombouw CM 300 voor 48V. phantoomvoeding.



\*  $R_4 = 8k\Omega$ ;  $V_1 = 17V$ ;  $V_2 = 9V$  STD.

\*  $R_4 = 10k$ ;  $V_1 = 20V$ ;  $V_2 = 11V$  lage D, hogere dynamiek



- $R_1 - 15k\Omega$  1/10 watt
- $R_2 - 15k\Omega$  1/10 watt
- $R_3 - 12k\Omega$  1/10 watt
- $R_4 - 8,2k\Omega$  1/10 watt
- $C_1 - 10\mu F$  35 volt
- $C_2 - 1000\mu F$  35 AXIAL

Sign-Ruis afstand met Bek spec calibrator adaptor gemeten  
 $\approx -77\text{dBA} \pm 2\text{db} + 0\text{v} \text{ } 94\text{dBA (1PA)} = \underline{17\text{dBA}}$

sen signaal p met cp2 = 2 - 2,5 mV/pA